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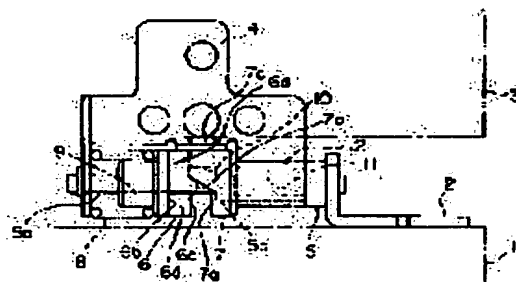
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(54) HINGE DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a hinge device having a simple and compact structure which can hold an opening/closing member in a closed position with respect to a main body member and can stop the opening-closing member in an optional position with respect to the main body member.

SOLUTION: A hinge device is provided with a second cam 6 fixed to a first member 2, a first cam 7 installed on a second member 1 and a rotation locking means 5a to lock relative rotation to the second member 2 of the first cam 7, and is provided with an energizing means 8 to hold a cam surface 7a of the first cam 7 on a cam surface 6a of the second cam 6 in a pressure contact condition, positioning means 6b and 7b which are arranged on both cam surfaces 6a and 7a and hold both members 1 and 3 in a positioning condition by engaging to each other when the first member 3 and the second member 1 are arranged in a prescribed relative angle position, a columnar shaft part 5 fixed along the swinging axis to either one of both members 1 and 3 and a friction piece 12 which is fixed to the other member and is brought into pressure contact with an outer peripheral surface of the shaft part 5.



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(54) 【発明の名称】 ヒンジ装置

(57) 【要約】

【課題】 開閉部材を本体部材に対して閉じた位置に保持しかつ開閉部材を本体部材に対して任意の位置に停止させることができる簡易かつコンパクトな構造のヒンジ装置を提供することである。

【解決手段】 第1の部材2に対して固定される第2のカム6と、第2の部材1に取り付けられる第1のカム7と、第1のカム7の第2の部材2に対する相対回転を係止する回転係止手段5aと、第1のカム7のカム面7aを第2のカム6のカム面6aに圧接状態に保持する付勢手段8と、両カム面6a、7aに設けられ、第1の部材3と第2の部材1とが所定の相対角度位置に配されたときに相互に係合して両部材1、3を位置決め状態に保持する位置決め手段6b、7bと、両部材1、3のいずれか一方に揺動軸線に沿って固定される柱状の軸部5と、他方の部材に固定され、軸部5の外周面に圧接させられる摩擦片12とを設ける。

